PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220 as well as, where applicable, Item 5 below.
755-314/DPC	ACTION	
International application No.	International filing date (day/mont	
PCT/CA2004/000441	24/03/2004	25/03/2003
Applicant	· · · · · · · · · · · · · · · · · · ·	
DUPONT CANADA INC.		
This International Search Report has beer according to Article 18. A copy is being tra		rching Authority and is transmitted to the applicant u.
This International Search Report consists	of a total ofsh	eets.
X It is also accompanied by	a copy of each prior art document o	cited in this report.
	international search was carried out ess otherwise indicated under this i	t on the basis of the international application in the tem.
The international this Authority (Rul		of a translation of the international application furnished to
b. With regard to any nucleo	otide and/or amino acid sequence	e disclosed in the international application, see Box No. I.
2. Certain claims were four	nd unsearchable (See Box II).	
3. Unity of invention is lack	king (see Box III).	
4. With regard to the title,		
X the text is approved as su	bmitted by the applicant.	
the text has been establish	ned by this Authority to read as follo	ows:
		•
		•
5. With regard to the abstract,	•	
the text is approved as sul	bmitted by the applicant.	
X the text has been establish may, within one month from	ned, according to Rule 38.2(b), by to m the date of malling of this interna	his Authority as it appears in Box No. IV. The applicant tional search report, submit comments to this Authority.
C. With report to the denvisor		·
 With regard to the drawings, a. the figure of the drawings to be presented in the drawings. 	ublished with the abstract is Figure	No. 1
X as suggested by the	•	
	s Authority, because the applicant fa	alled to suggest a figure.
as selected by this	s Authority, because this figure bette	er characterizes the invention.
b. none of the figures is to be	published with the abstract.	

International application No.

INTERNATIONAL SEARCH REPORT

PCT/CA2004/000441

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

An electroconductive integrated substrate and a process of producing the same, which comprises a porous conductive gas diffusion layer (15) having large number of pores with significant gas permeability, and a gas impermeable electroconductive flow field plate (5) having landing surfaces laminated on the surface of gas diffusion layer and integrally bonded to thereto by the molten composite from the landing surface. There is provided a process for joining the gas diffusion layer to a flow field plate in an electrochemical cell. The process comprises the step of welding the landing surface of the flow field plate to the gas diffusion layer using resistance welding.

INTERNATIONAL SEARCH REPORT

International Application No PCT/CA2004/000441

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01M8/02 B23K11/00

C09J5/06

C25B9/00

B23K20/00

B29C65/44

B29C65/64

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

CO9J C25B H01M B29C IPC 7

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C.	DOCUMENTS	CONSIDERED	TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Х	GB 2 326 017 A (* MOTOROLA INC) 9 December 1998 (1998-12-09) page 5, line 15 - page 7, line 8	1-12		
X	US 5 733 678 A (LEDJEFF ET AL) 31 March 1998 (1998-03-31) column 1, line 58 - column 3, line 33 column 7, line 41 - column 9, line 8	1-12		
A	PATENT ABSTRACTS OF JAPAN vol. 012, no. 398 (C-538), 21 October 1988 (1988-10-21) & JP 63 140095 A (EBARA CORP; others: 01),	1-12		
	11 June 1988 (1988-06-11) abstract			
	-/			

Patent family members are listed in annex.

- Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- document referring to an oral disclosure, use, exhibition or other means
- document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled
- "&" document member of the same patent family

Date of mailing of the international search report

Date of the actual completion of the international search

18 April 2005

27/04/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Standaert, F

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/CA2004/000441

Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 189 297 A (MITSUI TAKEDA CHEMICALS, INC) 20 March 2002 (2002-03-20) paragraphs '0006! - '0013!, '0035! - '0041!	5
A	WO 00/44005 A (E.I. DU PONT DE NEMOURS AND COMPANY) 27 July 2000 (2000-07-27) page 4, line 14 - page 5, line 9	1-12

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